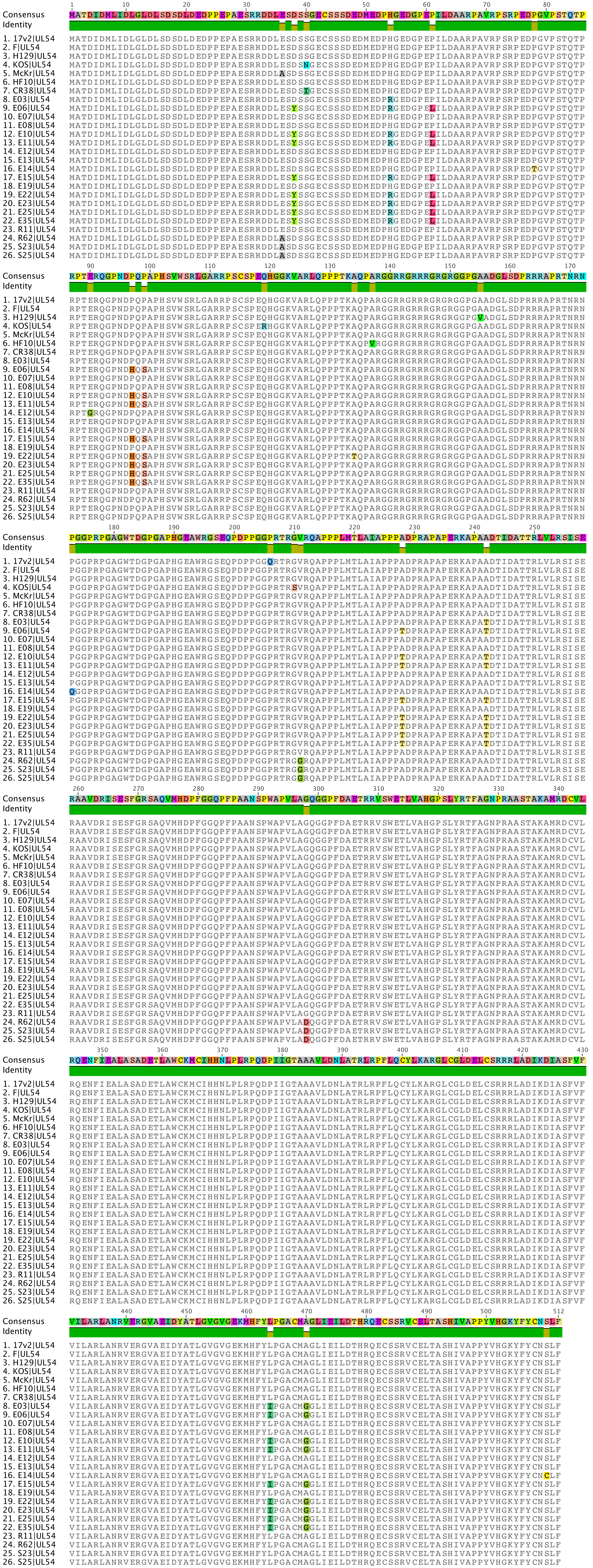
1 10 20 30 40 50 60 70 80
Consensus MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
Identity
1. 17v2|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
2. F|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
3. H129|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
4. KOS|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSNGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
5. McKr|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLASDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
6. HF10|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
7. CR38|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSIGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
8. E03|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPRGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
9. E06|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
10. E07|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
11. E08|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
12. E10|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
13. E11|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
14. E12|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
15. E13|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
16. E14|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDTGVPSTQTP
17. E15|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
18. E19|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
19. E22|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
20. E23|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
21. E25|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
22. E35|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESYSSGECSSSDEDMEDPRGEDGPELILDAARPAVRPSRPEDPGVPSTQTP
23. R11|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLESDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
24. R62|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLASDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
25. S23|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLASDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
26. S25|UL54 MATDIDMLIDLGLDLSDSDLDEDPPEPAESRRDDLASDSSGECSSSDEDMEDPHGEDGPEPILDAARPAVRPSRPEDPGVPSTQTP
90 100 110 120 130 140 150 160 170
Consensus RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
Identity
1. 17v2|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
2. F|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
3. H129|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGVADGLSDPRRRAPRTNRN
4. KOS|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPERHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
5. McKr|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
6. HF10|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPVRGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
7. CR38|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
8. E03|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
9. E06|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
10. E07|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
11. E08|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
12. E10|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
13. E11|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
14. E12|UL54 RPTGRQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
15. E13|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
16. E14|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
17. E15|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
18. E19|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
19. E22|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKTQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
20. E23|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
21. E25|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
22. E35|UL54 RPTERQGPNDHQSAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
23. R11|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
24. R62|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
25. S23|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
26. S25|UL54 RPTERQGPNDPQPAPHSVWSRLGARRPSCSPEQHGGKVARLQPPPTKAQPARGGRRGRRRGRGRGGPGAADGLSDPRRRAPRTNRN
180 190 200 210 220 230 240 250
Consensus PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
Identity
1. 17v2|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGQRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
2. F|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
3. H129|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
4. KOS|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRSVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
5. McKr|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
6. HF10|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
7. CR38|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
8. E03|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPATDTIDATTRLVLRSISE
9. E06|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
10. E07|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
11. E08|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
12. E10|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
13. E11|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
14. E12|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
15. E13|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
16. E14|UL54 QGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
17. E15|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
18. E19|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
19. E22|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
20. E23|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
21. E25|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
22. E35|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPTDPRAPAPERKAPATDTIDATTRLVLRSISE
23. R11|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGVRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
24. R62|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGGRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
25. S23|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGGRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
26. S25|UL54 PGGPRPGAGWTDGPGAPHGEAWRGSEQPDPPGGPRTRGGRQAPPPLMTLAIAPPPADPRAPAPERKAPAADTIDATTRLVLRSISE
260 270 280 290 300 310 320 330 340
Consensus RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
Identity
1. 17v2|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
2. F|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
3. H129|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
4. KOS|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
5. McKr|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
6. HF10|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
7. CR38|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
8. E03|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
9. E06|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
10. E07|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
11. E08|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
12. E10|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
13. E11|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
14. E12|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
15. E13|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
16. E14|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
17. E15|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
18. E19|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
19. E22|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
20. E23|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
21. E25|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
22. E35|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
23. R11|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLAGQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
24. R62|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLADQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
25. S23|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLADQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
26. S25|UL54 RAAVDRISESFGRSAQVMHDPFGGQPFPAANSPWAPVLADQGGPFDAETRRVSWETLVAHGPSLYRTFAGNPRAASTAKAMRDCVL
350 360 370 380 390 400 410 420 430
Consensus RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
Identity
1. 17v2|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
2. F|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
3. H129|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
4. KOS|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
5. McKr|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
6. HF10|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
7. CR38|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
8. E03|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
9. E06|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
10. E07|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
11. E08|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
12. E10|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
13. E11|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
14. E12|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
15. E13|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
16. E14|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
17. E15|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
18. E19|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
19. E22|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
20. E23|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
21. E25|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
22. E35|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
23. R11|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
24. R62|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
25. S23|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
26. S25|UL54 RQENFIEALASADETLAWCKMCIHHNLPLRPQDPIIGTAAAVLDNLATRLRPFLQCYLKARGLCGLDELCSRRRLADIKDIASFVF
440 450 460 470 480 490 500 512
Consensus VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
Identity
1. 17v2|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
2. F|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
3. H129|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
4. KOS|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
5. McKr|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
6. HF10|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
7. CR38|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
8. E03|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
9. E06|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
10. E07|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
11. E08|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
12. E10|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
13. E11|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
14. E12|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
15. E13|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
16. E14|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNCLF
17. E15|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
18. E19|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
19. E22|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
20. E23|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
21. E25|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
22. E35|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYIPGACMGGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
23. R11|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
24. R62|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
25. S23|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF
26. S25|UL54 VILARLANRVERGVAEIDYATLGVGVGEKMHFYLPGACMAGLIEILDTHRQECSSRVCELTASHIVAPPYVHGKYFYCNSLF